

# 4-Chlorobutyl m-tolyl ether

<b>Other names:</b>	1-(4-chlorobutoxy)-3-methylbenzene
<b>Inchi:</b>	InChI=1S/C11H15ClO/c1-10-5-4-6-11(9-10)13-8-3-2-7-12/h4-6,9H,2-3,7-8H2,1H3
<b>InchiKey:</b>	FVBUVUOPHWUVC R-UHFFFAOYSA-N
<b>Formula:</b>	C11H15ClO
<b>SMILES:</b>	Cc1cccc(OCCCCCl)c1
<b>Mol. weight [g/mol]:</b>	198.69
<b>CAS:</b>	71648-39-0

## Physical Properties

Property code	Value	Unit	Source
gf	27.59	kJ/mol	Joback Method
hf	-193.27	kJ/mol	Joback Method
hfus	23.28	kJ/mol	Joback Method
hvap	49.81	kJ/mol	Joback Method
log10ws	-3.48		Crippen Method
logp	3.393		Crippen Method
mcvol	160.200	ml/mol	McGowan Method
pc	2470.27	kPa	Joback Method
rinpol	1522.80		NIST Webbook
rinpol	1522.80		NIST Webbook
tb	542.59	K	Joback Method
tc	749.09	K	Joback Method
tf	304.82	K	Joback Method
vc	0.611	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	355.02	J/molxK	542.59	Joback Method
cpg	369.55	J/molxK	577.01	Joback Method
cpg	383.33	J/molxK	611.42	Joback Method
cpg	396.37	J/molxK	645.84	Joback Method
cpg	408.69	J/molxK	680.26	Joback Method
cpg	420.31	J/molxK	714.68	Joback Method

cpg	431.25	J/molxK	749.09	Joback Method
dvisc	0.0018569	Paxs	304.82	Joback Method
dvisc	0.0010069	Paxs	344.45	Joback Method
dvisc	0.0006194	Paxs	384.08	Joback Method
dvisc	0.0004173	Paxs	423.70	Joback Method
dvisc	0.0003008	Paxs	463.33	Joback Method
dvisc	0.0002283	Paxs	502.96	Joback Method
dvisc	0.0001804	Paxs	542.59	Joback Method

## Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C71648390&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C71648390&amp;Units=SI</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/28-943-4/4-Chlorobutyl-m-tolyl-ether.pdf>

Generated by Cheméo on 2024-04-17 01:20:15.863575409 +0000 UTC m=+15606064.784152724.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.